

### AMENDMENTS TO THE CLAIMS

Please amend the application as indicated:

1-12 (Canceled)

13. (Currently amended) A method for blocking or reducing the adverse effects on a medical or experimental material when the medical or experimental material is exposed to 10kGy or more of at least one type of radiation selected from the group consisting of x-rays, gamma rays and electron beams, the method comprising:

~~determining that a subject will be exposed to 10 kGy or more of said x-rays, gamma rays and/or electron beams;~~

~~in response to the determination and prior to the exposure, protecting~~ covering the subject medical or experimental material in need of protection from said adverse effects with a radioprotective material sheet or film comprising at least one member selected from the group consisting of collagens, keratins, silk fibroins and their derivatives.

14-16. (Canceled)

17. (Currently amended) A method according to claim 13, wherein the sheet or film comprises at least one member selected from the group consisting of collagens, keratins, silk fibroins and their derivatives ~~is used in such a manner that the at least one member is present inside the subject or inside the surface layer of a subject~~ in a total amount of 0.05 wt.% to 40 wt.% based on the weight of the sheet or film.

18-26. (Canceled)

27. (New) The method of Claim 13, wherein the medical or experimental material is exposed to 10kGy or more radiation over the course of 0-5 hours.